

DEPARTMENTAL BUDGET INFORMATION

WATER (41)

MISSION

The Detroit Water and Sewerage Department (DWSD) will exceed our customer's expectations through innovative treatment and transmission of water and wastewater that promote healthy communities and economic growth.

DESCRIPTION

The Water Supply System is administratively part of the Detroit Water and Sewerage Department while maintained as a separate fund in the City of Detroit accounting system. The Department operates five water treatment plants and twenty-one booster (repumping) stations and twenty reservoirs. Of these five water plants, two plants are located in Detroit and one each is located in Allen Park, Dearborn and Port Huron. There are three sources of raw water supply -- Detroit River at Fighting Island, Detroit River at Belle Isle and Lake Huron north of Port Huron. DWSD's five water treatment plants pump an average of 675 million gallons of clean drinking water each day.

The Water Supply System's primary role is to provide potable water for over 4 million residents in Southeastern Michigan, delivered at various points in the system at adequate pressure to meet our customers' needs. The water provided is in conformance to applicable standards as required by Michigan's Safe Drinking Water Act. The department furnishes sufficient water pressure and pipeline service to assure acceptable fire protection.

The Water system serves a total population of nearly 4 million people in Detroit and in

125 other communities within a 1,011 square mile service area in southeastern Michigan. The main administrative offices are located at 735 Randolph in downtown Detroit. Approximately 3,400 miles of transmission and distribution mains within the City of Detroit, and 790 miles of transmission lines in the remaining service area are owned and maintained by the Department.

MAJOR INITIATIVES

The Detroit Water and Sewerage Department (DWSD) continues its improvement of the water system infrastructure in various neighborhoods throughout the City of Detroit. The department is investigating maintenance history of all water mains and schedules repairs and replacement based on the most critical needs.

DWSD is in the process of reorganizing the Commercial Division and replacing the Customer Billing and Information System (CBIS). The primary goal of the Reorganization Plan will be to provide a more well rounded customer service focus for City of Detroit retail and suburban wholesale customers. Under the Reorganization Plan, many of the division's major functions, currently handled by twelve separate sections, will be consolidated.

Distribution mains with a high maintenance history continue to be replaced in the City of Detroit with particular emphasis on areas of the city, such as the Empowerment Zone, which are undergoing redevelopment.

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The terrorist attacks have made monitoring water supplies for contaminants essential to ensure public safety. This monitoring was initially conducted as an emergency response; however, it is prudent that this testing continue on a regular and routine basis. The department has purchased and is using the most advanced technology currently available.

PLANNING FOR THE FUTURE

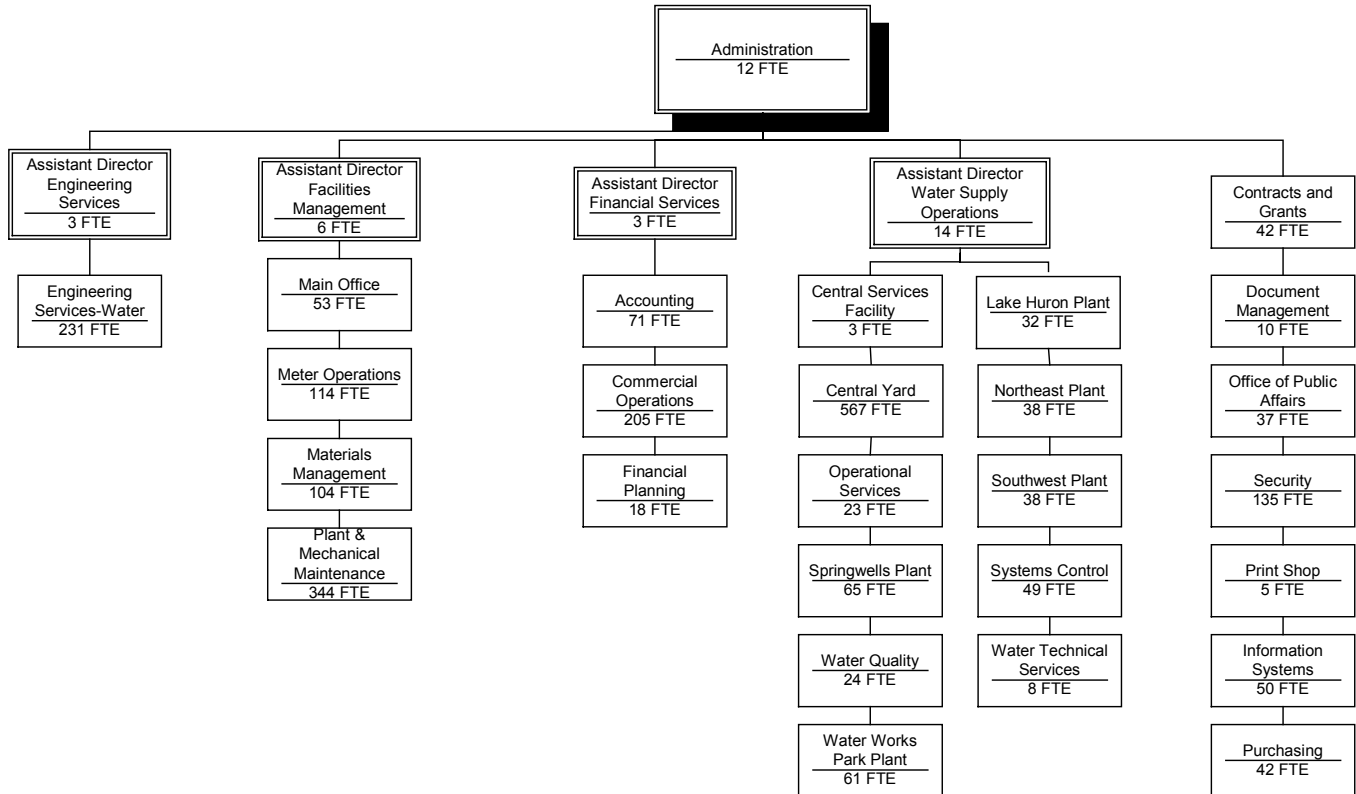
The new water treatment plant at Water Works Park will change the current operating procedures. Virtually every structure and piece of equipment is scheduled to be replaced or rehabilitated. The new water treatment process may change the water operating environment. During the construction of the new plant, the original treatment plant – in operation since 1879 – has come to produce high quality potable water. The new plant is expected to be completed and in operation by 2003.

Another major planned project is the design and construction of the new ozone facilities at Southwest, Northeast, Springwells and Lake Huron Plants. These facilities will be constructed to take advantage of the latest disinfection technology.

The Lake Huron Water Plant is in the process of designing and building a second clearwell, a water storage facility, which will double the storage capacity to 20 million gallons of water and a water production capacity of 400 million gallons per day (mgd). This will provide the DWSD with the ability to meet increased customer demands in the Lake Huron Water Treatment Plant service area.

DWSD is rehabilitating approximately 168 of 272 water meter pits, installing 127 master water meters and replacing 13 new master meter vaults. This system will utilize digital automatic meter reading (AMR) equipment and radio based supervisory control and data acquisition (SCADA) equipment at 275 sites. This will allow water usage data to be gathered electronically. AMR will reduce field visits, will provide rapid notification of meter flow measuring problems to minimize estimated billings and will enable DWSD to verify adequate flow and pressure to each customer on a continuous basis. Also, it will better detect water losses, produce flow projections used in developing annual water rates and help provide necessary data to assess future water demand.

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PERFORMANCE GOALS, MEASURES AND TARGETS

Goals: Measures	2000-01 Actual	2001-02 Projection	2002-03 Target
Inform the public of agency operations:			
Populations served – city	951,270	951,300	951,400
Populations served – suburban	2,946,892	2,946,900	2,946,950
City services	277,530	277,800	277,900
Implement preventative maintenance measures on distribution system valves and hydrants:			
Fire hydrants repaired or replaced	2,725	8,251	9,000
Total hydrants in system	30,427	30,431	30,441
Continue the expansion and improvement of the Water and Sewerage system in Metro area:			
Number of ongoing water capital projects	17	22	13
Value of ongoing projects	\$11,407,000	\$35,480,000	\$80,561,000
Water pumped to main (billions)	225	240	240

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EXPENDITURES

	2000-01 Actual Expense	2001-02 Redbook	2002-03 Mayor's Budget Rec	Variance	Variance Percent
Salary & Wages	\$ 65,916,608	\$ 54,515,611	\$ 47,006,783	\$ (7,508,828)	-14%
Employee Benefits	21,186,945	25,723,014	26,498,690	775,676	3%
Prof/Contractual	201,777,393	30,136,638	32,515,371	2,378,733	8%
Operating Supplies	13,697,126	17,760,112	19,278,912	1,518,800	9%
Operating Services	47,061,938	47,426,856	52,219,488	4,792,632	10%
Capital Equipment	12,593,879	7,526,900	7,525,500	(1,400)	0%
Capital Outlays	1,260,866	186,850	335,165	148,315	79%
Fixed Charges	50,591,684	82,241,800	87,060,300	4,818,500	6%
Other Expenses	10,842,460	(5,659,160)	363,873,889	369,533,049	-6530%
TOTAL	\$424,928,899	\$259,858,621	\$636,314,098	\$ 376,455,477	145%
POSITIONS	1,895	2,420	2,407	(13)	-1%

REVENUES

	2000-01 Actual Revenue	2001-02 Redbook	2002-03 Mayor's Budget Rec	Variance	Variance Percent
Fines/Forfeits/Penalties	\$ 1,468,794	\$ -	\$ -	\$ -	0%
Rev from Use of Assets	9,955,205	14,170,500	6,484,000	\$ (7,686,500)	-54%
Sales & Charges	192,905,538	233,244,434	261,977,369	\$ 28,732,935	12%
Sales of Assets	13,567	-	-	\$ -	0%
Miscellaneous	57,245	12,443,687	367,852,729	\$ 355,409,042	2856%
TOTAL	\$204,400,349	\$259,858,621	\$636,314,098	\$ 376,455,477	145%

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